For a Free Quote: Web: EnergyPal.com/solar Call: 1-800-990-3725 Email: contact@energypal.com

# **EnergyPal**

# Solar Panel Guide Specification Data Sheet

# Photon Energy Systems Limited PMM0225-0240-60 PMM0225

Also available on the web at EnergyPal.com/photon-energy-systems-limited-solar-panels/pmm0225

# **PHOTON ENERGY SYSTEMS LIMITED** Mono - Crystalline Series: PMM0225-0240-60

### **L 1800 4252 786**

www.fb.com/PhotonSolarPower

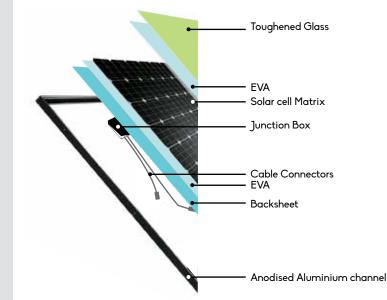


### PMM0230 MODULE

### **ABOUT**

Established in 1995, Photon Energy Systems Limited is one of the most experienced solar energy companies in the World. At Photon, we are the leading manufacturers of high performance solar PV modules which are used to power residential, commercial and other large scale utilities. With our highly reliable solar PV modules, produced in a state of the art manufacturing facility, we have installed & commissioned more than 60 MW grid connected power plants in India at the end of fiscal year 2013-14.

# **CELL LAYER DAIGRAM**



for more details, refer Backpage.

### **CERTIFICATIONS & APPROVALS**







### **SPECIAL FEATURES**

- High energy conversion efficiency because of high fill factor
- Cells sorted by power and current to minimize field mismatch losses.
- Electroluminescence test carried out for micro-cracks





ISO 9001, ISO 14001 Certifications

Made in India

Quality checked

5400 |

Mechanical Load (Wind, Snow) = 5400 Pa





100% 97.5% 90%

80%



Easy Installation & Maintainence

Revised as of May 2014



Industrial



Commercial

Residential





Rural MicroGrids

10 year product warranty 25 year power output warranty efficiency

15

20

25 Year

10

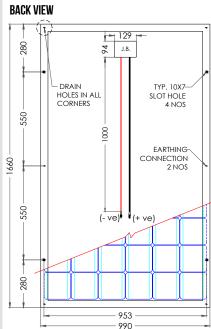
PHOTON

To Visit Our Webite

with a QR code reader

SCAN

# **TECHNICAL DRAWING**



## Series: PMM0225-0240-60

CUR	RENT VOLTAG	E CURVE P	MM025
10	1000W/m <sup>2</sup>		
8	800W/m <sup>2</sup>		
\$6	600W/m²		
4	400W/m <sup>2</sup>		
2	200W/m²		
°,	10 2 Voltage (1		40

# **OPERATING CONDITIONS**

Maximum system Volt- age - V	1000 VDC
Operating Temperature	- 40 to + 85 °C
Maximum Static Load (Wind/Hail or Snow)	5400 Pa (113 psf)
Maximum series fuse rating (A)	15



\* Measured at Standard Test Conditions (STC): Irradiance of 1000W/m², AM 1.5, and Cell temperature 25° C All Dimensions are in mm.

# PACKAGING DETAILS

Box dimensions L x W x H (mm)	1720 x 1140 x 1170
Gross Box weight (kg)	528
No. of Modules per pallet	24
Number of pallets per 40ft container	24

PMM0230

# PMM0235 PMM0240

# **ELECTRICAL PARAMETERS AT STANDARD TEST CONDITIONS (STC)**

PMM0225

Nominal Power - P <sub>max</sub> (Watts)	225	230	235	240
Power tolerance (%)	± 2	± 2	± 2	± 2
Module Efficiency / Fill Factor (%)	13.6	13.9	14.3	14.6
Voltage at Maximum Power - V <sub>mp</sub> (V)	29.41	29.49	29.56	29.65
Current at Maximum Power - I <sub>mp</sub> (A)	7.65	7.80	7.95	8.10
Open Circuit Voltage - $V_{oc}$ (V)	36.41	37.00	37.08	36.39
Short Circuit Current - I., (A)	8.35	8.40	8.45	8.51

# MODULE DATA

L X W X D (mm)	1660 X 990 X 42
Weight (Kg)	20
Area - Sq.m	1.64
Frame Material	Silver White color Anodised Aluminium channel
Glass	3.2 mm Tempered Low Iron Textured toughened glass
Junction Box	Solar Box-RH3, with IP 67 and 3 Bypass diodes ( Make: Huber+ Shuner)
Cable connector	Radox Solar Connectors with 1m length cable (make: Huber +Suhner)
Cell encapsulation material	Ethylene Vinyl Acetate
Backside Sheet	Multi layered PET based film

# **CELL DATA**

Cell type	Mono-Crystalline
Solar Cells per Module	60
Parent Solar Cell Size	156 x 156

# **TEMPERATURE COEFFICIENT** Ρ - 0.430 % / °C

V <sub>oc</sub>	- 0.330 % / °C
l <sub>sc</sub>	+ 0.058 % / °C

DOC NO. PMM0225-0240-V2-may2014

References: Specifications included in this datasheet are subject to change without notice. However proper care has been taken to ensure the accuracy of provided data.

Caution: Read safety and installation instructions before using this product. This module should not be directly connected to a load.

Photon Energy Systems Limited 775-K, Road No. 45, Jubilee Hills, Hyderabad - 500 033, A.P., INDIA Tel: +91 40 2333 1337 / 38 / 39 Fax: +91 40 2333 1340 E-mail us: factory@photonsolar.in Website: www.photonsolar.in

# for our Dealers Network, kindly visit:

http://photonsolar.in/html/dealers-network.html

for sales inquiry, email us at <a href="mailto:spymarketing@photonsolar.in">spymarketing@photonsolar.in</a>